

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)

DATE

February 2000

BUDGET ACTIVITY

PE NUMBER AND TITLE

05 - Engineering and Manufacturing Development**0604740F Integrated Command & Control Applications**

COST (\$ in Thousands)	FY 1999 Actual	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	Cost to Complete	Total Cost
Total Program Element (PE) Cost	2,047	6,055	214	233	252	271	290	Continuing	TBD
652523 Architectural Implementation	47	195	214	233	252	271	290	Continuing	TBD
652524 Reuse and Component Support	2,000	5,860	0	0	0	0	0	0	7,860
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0

(U) **A. Mission Description**

The goal of this program is to dramatically reduce the development time, costs, and risks associated with the acquisition and development of warfighting command and control (C2) systems by using families of pre-defined product lines to enhance common application use and reuse. Project 2523 minimizes development cost and time by using pre-defined product line architectures with tested, reusable software components from mature programs. The use of common product line designs during development can improve software quality and reliability while reducing fielding times and overall life cycle costs. Project 2524, Reuse and Component Support (RCS) identifies, tests, and provides reusable software components and products to the IC2A program. The RCS project developed a software reuse strategy for the DoD; and is developing a National Product Line Asset Center (NPLACE) Software Reuse Repository (a Congressional special interest item) to manage a command center product line based on primarily commercial off-the-shelf (COTS) products. The IC2A program has determined that over 80% of the functionality of any command center software is common to all command centers. For programs using product line concepts, average savings of 56% in development costs and 66% in development time can be realized.

(U) **B. Budget Activity Justification**

This program is in budget activity 5 - Engineering and Manufacturing Development, due to the nature of the effort.

(U) **C. Program Change Summary (\$ in Thousands)**

	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>Total Cost</u>
(U) Previous President's Budget (FY 2000 PBR)	2,194	196	216	TBD
(U) Appropriated Value	2,200	6,096		
(U) Adjustments to Appropriated Value				
a. Congressional/General Reductions	-6			

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BUDGET ACTIVITY

05 - Engineering and Manufacturing Development

PE NUMBER AND TITLE

0604740F Integrated Command & Control
Applications(U) C. Program Change Summary (\$ in Thousands) Continued

	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>Total Cost</u>
b. Small Business Innovative Research	-70			
c. Omnibus or Other Above Threshold Reprogram		-41		
d. Below Threshold Reprogram	-66			
e. Rescissions	-11			
f. Other				
(U) Adjustments to Budget Years Since FY 2000 PBR			-2	TBD
(U) Current Budget Submit/FY 2001 PBR	2,047	6,055	214	TBD
(U) <u>Significant Program Changes:</u>				
Congress added \$5.9 million in FY00 for Asset Software Reuse Program \$2.8 million), National Product Line Asset Center (NPLACE)(\$2.6 million), and Air Force Product Line Engineering (\$0.5 million).				

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RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)							DATE February 2000		
BUDGET ACTIVITY 05 - Engineering and Manufacturing Development				PE NUMBER AND TITLE 0604740F Integrated Command & Control Applications				PROJECT 652523	
COST (\$ in Thousands)	FY 1999 Actual	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	Cost to Complete	Total Cost
652523 Architectural Implementation	47	195	214	233	252	271	290	Continuing	TBD
<p>(U) <u>A. Mission Description</u></p> <p>This project will be renamed Product Lines. This project forms a vital component of the Integrated Command and Control Applications (IC2A) program by providing pre-defined product line architectures with tested, reusable software components to build Command and Control (C2) systems. Using rapid prototyping techniques, a Product Line contractor can quickly tailor a product line to the warfighter's needs and deliver an integrated, combat-ready system. All product lines and components are based on Defense Information Infrastructure Common Operating Environment (DII COE) principles; make maximum use of open system architectures, industry standards, Commercial Off-the Shelf (COTS) products, and government furnished equipment; and incorporate multilevel security (MLS) features. This effort minimizes development risks by reusing proven software components from mature programs and by continuously testing new products and technologies against the product line designs to ensure integration and interoperability. The Product Line contractors develop and maintain the product line infrastructure in a collaborative, synergistic environment using validated, mature software engineering processes to help ensure the quality of the designs and components. Proven product line designs and tested software components reduce development costs, risks, and time for the user. New technologies, capabilities, and incremental developments are assessed and integrated into the designs as part of the product line development process to minimize any impact to the user.</p> <p>(U) <u>FY 1999 (\$ in Thousands)</u></p> <p>(U) \$47 Qualified components for product lines.</p> <p>(U) \$47 Total</p> <p>(U) <u>FY 2000 (\$ in Thousands)</u></p> <p>(U) \$195 Qualify components for product lines.</p> <p>(U) \$195 Total</p> <p>(U) <u>FY 2001 (\$ in Thousands)</u></p> <p>(U) \$214 Qualify components for product lines.</p> <p>(U) \$214 Total</p> <p>(U) <u>B. Project Change Summary</u></p>									
<div style="display: flex; justify-content: space-between;"> Project 652523 Page 3 of 10 Pages Exhibit R-2A (PE 0604740F) </div>									

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RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)										DATE February 2000		
BUDGET ACTIVITY					PE NUMBER AND TITLE					PROJECT		
05 - Engineering and Manufacturing Development					0604740F Integrated Command & Control Applications					652523		
(U) C. Other Program Funding Summary (\$ in Thousands)												
	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>Cost to</u>	<u>Total Cost</u>			
	<u>Actual</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Complete</u>				
(U) Not applicable												
(U) D. Acquisition Strategy												
All major contracts within this Program Element were awarded after full and open competition.												
(U) E. Schedule Profile												
	<u>FY 1999</u>			<u>FY 2000</u>			<u>FY 2001</u>					
	1	2	3	4	1	2	3	4	1	2	3	4
(U) Product Line Component Qualification (Ongoing)	*	*	*	*	X	X	X	X	X	X	X	X
* - Completed Event												
X - Planned Event												
This is a support and management level of effort program. All activities are ongoing.												

Project 652523

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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)							DATE February 2000			
BUDGET ACTIVITY 05 - Engineering and Manufacturing Development					PE NUMBER AND TITLE 0604740F Integrated Command & Control Applications				PROJECT 652523	

(U) **A. Project Cost Breakdown (\$ in Thousands)**

	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>
(U) Product Line Component Qualification	47	195	214
(U) Total	47	195	214

(U) **B. Budget Acquisition History and Planning Information (\$ in Thousands)**

(U) **Performing Organizations:**

<u>Contractor or Government</u>	<u>Contract Method/Type or Funding Vehicle</u>	<u>Award or Obligation Date</u>	<u>Performing Activity EAC</u>	<u>Project Office EAC</u>	<u>Total Prior to FY 1999</u>	<u>Budget FY 1999</u>	<u>Budget FY 2000</u>	<u>Budget FY 2001</u>	<u>Budget to Complete</u>	<u>Total Program</u>
<u>Product Development Organizations</u>										
Hughes	CPFF	19 Dec 92	N/A	N/A	453	15	65	71	Continuing	TBD
Raytheon	CPFF	19 Dec 92	N/A	N/A	1,000	16	65	72	Continuing	TBD
AGCS	CPFF	Dec 94	N/A	N/A	50	0	0	0	0	50
TRW	CPFF	12 Feb 97	N/A	N/A	0	16	65	71	Continuing	TBD
Unisys	CPFF	29 Sep 93	N/A	N/A	30	0	0	0	0	30
<u>Support and Management Organizations</u>										
Not applicable.										
<u>Test and Evaluation Organizations</u>										
Not applicable.										

(U) **Government Furnished Property:**

<u>Item Description</u>	<u>Contract Method/Type or Funding Vehicle</u>	<u>Award or Obligation Date</u>	<u>Delivery Date</u>	<u>Total Prior to FY 1999</u>	<u>Budget FY 1999</u>	<u>Budget FY 2000</u>	<u>Budget FY 2001</u>	<u>Budget to Complete</u>	<u>Total Program</u>
<u>Product Development Property</u>									
Not applicable.									
<u>Support and Management Property</u>									

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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)					DATE February 2000	
BUDGET ACTIVITY		PE NUMBER AND TITLE			PROJECT	
05 - Engineering and Manufacturing Development		0604740F Integrated Command & Control Applications			652523	
(U) <u>Government Furnished Property Continued:</u>						
<u>Test and Evaluation Property</u>						
<u>Subtotals</u>		<u>Total Prior</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget</u>	<u>Total</u>
		<u>to FY 1999</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>Program</u>
Subtotal Product Development		1,533	47	195	214	TBD
Subtotal Support and Management						
Subtotal Test and Evaluation						
Total Project		1,533	47	195	214	TBD

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RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)							DATE February 2000		
BUDGET ACTIVITY 05 - Engineering and Manufacturing Development				PE NUMBER AND TITLE 0604740F Integrated Command & Control Applications				PROJECT 652524	
COST (\$ in Thousands)	FY 1999 Actual	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	Cost to Complete	Total Cost
652524 Reuse and Component Support	2,000	5,860	0	0	0	0	0	0	7,860
<p>(U) <u>A. Mission Description</u> This project identifies, tests, and provides reusable software components and products for use by Air Force and Department of Defense program offices. A software reuse strategy for DoD was developed as part of this effort. Efforts are continuing with development of a Product Line Asset Center Software Reuse Repository to manage a command center product line based primarily on commercial off-the-shelf (COTS) products through the National Product Line Asset Center (NPLACE) contract vehicle.</p> <p>(U) <u>FY 1999 (\$ in Thousands)</u> (U) \$360 Identified Enterprise Wide Assets (From COTS, GOTS, Product line engineering centers). (U) \$1,396 Performed suitability testing against product line architectures, assets, criteria, and design. (U) \$244 Maintained repository/distribute product line architecture, assests, criteria, and design. (U) \$2,000 Total</p> <p>(U) <u>FY 2000 (\$ in Thousands)</u> (U) \$2,780 Asset Software Reuse Program (U) \$2,580 National Product Line Asset Center (NPLACE) (U) \$500 Air Force Product Line Engineering (U) \$5,860 Total</p> <p>(U) <u>FY 2001 (\$ in Thousands)</u> (U) \$0 No Activity (U) \$0 Total</p> <p>(U) <u>B. Project Change Summary</u> Congress added \$5.9 million in FY00 for Asset Software Reuse Program \$2.8 million), National Product Line Asset Center (NPLACE)(\$2.6 million), and Air Force Product Line Engineering (\$0.5 million).</p>									
Project 652524			Page 7 of 10 Pages			Exhibit R-2A (PE 0604740F)			

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	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>Cost to</u>	<u>Total Cost</u>																																													
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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)							DATE February 2000																																																																																																																																			
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(U) <u>Government Furnished Property Continued:</u>									
	<u>Contract</u>								
	<u>Method/Type</u>	<u>Award or</u>							
<u>Item</u>	<u>or Funding</u>	<u>Obligation</u>	<u>Delivery</u>	<u>Total Prior</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget to</u>	<u>Total</u>
<u>Description</u>	<u>Vehicle</u>	<u>Date</u>	<u>Date</u>	<u>to FY 1999</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>Complete</u>	<u>Program</u>
<u>Product Development Property</u>									
Not applicable.									
<u>Support and Management Property</u>									
<u>Test and Evaluation Property</u>									
				<u>Total Prior</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget to</u>	<u>Total</u>
<u>Subtotals</u>				<u>to FY 1999</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>Complete</u>	<u>Program</u>
Not applicable.									
Subtotal Product Development				0	2,000	5,860	0	0	7,860
Subtotal Support and Management									
Subtotal Test and Evaluation									
Total Project				0	2,000	5,860	0	0	7,860

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Exhibit R-3 (PE 0604740F)